This document was submitted to EPA by a registrant in connection with EPA's evaluation of this chemical, and it is presented here exactly as submitted.

SEPA Environmental Washing	ісу	>	Registration Amendment Other	1	0PP identifier 2607 252			
	Applicati	on for l	esticide	- Secti	on I			
1. Company/Product Number			2. EPA Produ	ct Manager	<del></del>	3. Pr	oposed Classi	fication
3125-172				George L	aRocca	$\bot$	None	Restricted
4. Company/Product Name Di-Syston 15% Granular Systemic	<u> </u>	PM#	<b>Q</b> 3					
5. Name and Address of Applicant (Include ZIP Code) Bayer Corporation 8400 Hawthorn Road, P.O. Box 4913 Kansas City, MO 64120-0013  Check. If this is is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to:  EPA Reg. No.  Product Name							
		Sec	tion - II					
Amendment - Explain below.  Resubmission in response to Agency letter  Notification - Explain below.		Final printed labels in response to Agency letter dated "Me Too" Application.  Other - Explain below.						
Explanation: Use additional page(s) if necessary. (For Section I and Section II.)  See Attached								
		Sec	tion - III					
1. Material This Product Will Be Packaged In:					T			
Child-Resistant Packaging  Yes* No  * Certification must  Unit Packaging  Yes No  If "Yes" Unit Packaging wgt	No. Per Container	ΙДΥ	oluble Packaging es lo No. Per wgt. Container		2. Type of Co	Metal Plastic Glass Paper	(Specify)	
3. Location of Net Contents Information  Label Container	4. Size(s) R	etail Cont	ainer		5. Location of Lab On Label On Labeling		ions	
6. Manner in Which Label is Affixed to Product								
Section - IV								
1. Contact Point (Complete items directly below	for identificat	tion of indi	vidual to be	contected, i	if necessary, to pro	cess this	epplication.)	
Name Premjit P. Halarnkar Regulatory Affairs Specialist  816-242. 233.1					le A/us Cude) -			
Certification  I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.  6. Date Applicatio.: Received (Stamped)								
2. Signature 3. Title			Director, Product Registrations and					
			Legulatory				1	
			ch 10, 199	99				

Di-Syston 8 Emulsifiable Systemic Insecticide EPA Reg. No. 3125-307

Di-Syston 15% Granular Systemic Insecticide EPA Reg. No. 3125-172

Section II - Amendment Information

In order to bring our labeling in line with current use practices, Bayer has decided to make the following changes in the two disulfoton labels listed above.

Cotton:

Foliar application eliminated. Three soil applications (3 lbs ai/acre total) reduced

to one soil application of 1 lb ai/acre.

Potatoes:

Two soil applications (8 lbs ai/acre total) reduced to one soil application of 3 lbs ai/acre. Foliar use (3 lbs ai/acre) eliminated in the West. Foliar use is now 1 lb

ai/acre (East of the Rocky Mts. only).

Wheat:

Two foliar applications (1.5 lbs ai/acre total) reduced to one foliar application

(0.75 lbs ai/acre total).

Peanuts:

Soil application reduced from 2 lbs ai/acre to 1 lb ai/acre.

Beans: Reduce 15G rate from 2 lbs ai/acre to 1 lb ai/acre.

Tobacco:

Total amount allowed set at 4 lbs ai/acre.

Sorghum:

Two soil applications (2 lbs ai/acre total) reduced to one soil applications (1 lb ai/acre). Three foliar applications (1.5 lbs ai/acre total) reduced to two foliar applications (1.0 lbs ai/acre total).

Brussels Sprouts, Cauliflower:

Two soil applications (2 lbs ai/acre total) reduced to one

soil application (1 lb ai/acre total).

Tomatoes, Oats, Corn, Pecans:

All uses canceled.

## RESTRICTED USE PESTICIDE

Due to acute human oral, dermal, and inhalation toxicity

For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification.

# Di-Syston® 15%

## **Granular Systemic Insecticide**

For effective systemic crop protection.

**ACTIVE INGREDIENT:** 

EPA Reg. No. 3125-172

Net Weight: \_\_\_ Pounds

STOP - Read the label before use. Keep out of reach of children.

### POISON





PELIGRO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.

(If you do not understand the label, find someone to explain it to you in detail.)

## STATEMENTS OF PRACTICAL TREATMENT

#### Organophosphate

TREATMENT: In case of poisoning, call a physician immediately. Have patient lie down and keep quiet. If swallowed: Vomiting should be induced. Administer water freely and induce vomiting by giving one dose (1/2 oz or 15 mL) of syrup of ipecac. If vomiting does not occur within 10 to 20 minutes, administer second dose. If syrup of ipecac is not available, induce vomiting by sticking finger down throat. Repeat until vomit fluid is clear. Never give anything by mouth to an unconscious person. Professional medical assistance should be secured immediately. If on skin: Remove contaminated clothing and wash skin immediately with soap and warm water. Get medical attention immediately. If eyes are contaminated: Wash with plenty of flowing water. Get medical attention immediately.

**To Physician:** ANTIDOTE - Administer atropine sulfate in large therapeutic doses. Repeat as necessary to the point of tolerance. 2-PAM is also antidotal and may be administered but only in conjunction with atropine.

Compound inhibits cholinesterase resulting in stimulation of the central nervous system, the parasympathetic nervous system, and the somatic motor nerves. Do not give morphine. Watch for pulmonary edema, which may develop in serious cases of poisoning even after 12 hours. At first sign of pulmonary edema, the patient should be placed in an oxygen tent and treated symptomatically.

**SYMPTOMS OF POISONING:** A sense of "tightness" in the chest. Sweating. Contracted pupils. Stomach pains. Vomiting and diarrhea.

## PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**DANGER:** Poisonous if swallowed, inhaled, or absorbed through the skin. Rapidly absorbed through the skin. Do not get in eyes or on skin. Do not breathe dust. Do not contaminate feed or food. Keep out of reach of children.

#### Personal Protective Equipment

#### Applicators and other handlers must wear:

- · Coveralls over short-sleeved shirt and short pants
- · Water-proof gloves
- · Chemical-resistant footwear plus socks
- · Chemical-resistant headgear for overhead exposure
- Chemical-resistant apron when cleaning equipment, mixing or loading
- For exposures in enclosed areas, a respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOS approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G)
- For exposures outdoors, dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C)

Follow manufacturer's instructions for cleaning/ maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering controls statements: When handlers use closed systems, enclosed cabs or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

DI-SYSTON 15% Granular systemic insecticide enters the plant through the root system. The insecticide when placed near the roots, is picked up and moves in the sap stream to all parts of the plant where it kills insects as they feed on the plant.

This formulation of DI-SYSTON 15% Granular is highly versatile and may be applied by various methods. It can be drilled in the furrow with seed, broadcast, or banded on each side of the seed furrow. Foliage broadcast application may be applied by ground or air equipment. Time and method of application and limits for use are discussed in detail for each specific crop under "Remarks" below.

As a preplant treatment for ornamental flowers, shrubs, and trees, apply granules evenly to seed bed and mix into soil; seeds or transplants are then placed in the normal manner.

Established plants may be treated by distributing granules uniformly under foliage canopy. Work the granules uniformly into top soil and water thoroughly. The active ingredient will move into the root zone and be taken up by the root system.

#### RECOMMENDED APPLICATIONS

**IMPORTANT:** When used on cotton, beans, or lettuce at the maximum recommended rates under adverse conditions such as extremely cool or wet or extremely dry weather, DI-SYSTON systemic insecticide may cause some delay in emergence, stunting of seedlings, or reduction of stand. Such damage may be more pronounced in light, sandy soils. Plant injury may also occur or may be enhanced when certain pre-emergent herbicides are used in conjunction with DI-SYSTON.

		RECOMMEN	DED APPLICATIONS	<b>3</b>			
		DOSAGE					
CROP	INSECT	DI-SYSTON 15% G	REMARKS				
FIELD CROPS Aphids*  Barley Grasshoppers  Hessian fly  Mites  (Except Wheat curl mite)  Thrips	6.7 lb per acre	Apply by drilling or broadcast at planting time, or as a broadcast after emergence. Do not apply more than twice per season nor within 60 days of harvest for grain. Allow a minimum of 21 days between applications. Do not graze or cut for forage within 30 days of treatment.					
		For control of Hessian fly, apply at planting. In addition, foliar application of DI-SYSTON 8 to control later generations in southern growing areas may be beneficial.					
	Thrips		ROW SPACING RATE CHART FOR DI-SYSTON 15% G				
			Row Spacing** Lb 15	% G / Acre Row S	pacing** Lb 15% G / Acre		
			6, 7, or 8	6.7	14 3.9		
			10	5.4	16 3.4		
			12	4.5	18 3.0		
Cotton	Aphids* Mites	5 to 8 oz/1000 ft of row**	Read "IMPORTANT" APPLICATIONS" for a		ECOMMENDED  n before use on this crop.		
l .	Thrips	up to a maximum of 6.7 lb/A OR 4 to 6.7 lb/A	RATE CHART FOR APPLICATION				
	(Except		<u>Heavy Soils</u>	Medium Soils	<u>Light Soils</u>		
	Western		8 oz 15% G/	6.6 ox 15% G/	5 oz 15% G/		
	flower thrips)		1000 ft of row	1000 ft of row	1000 ft of row		
			OR	OR	OR		
			6.7 lb 15% G/acre	5.3 lb 15% G/acre	4 lb 15% G/acre		
		DO NOT FEED TREATED COTTON FORAGE.					
		At Planting/Replanting: Place the granules in the seed furrow or in a soil incorporated band on each side of the furrow. This application may be used in conjunction with a fungicide application which is registered and recommended for disease control on this crop.					
		This at plant soil application of DI-SYSTON may be used in conjunction with a preemergent surface applied or preplant incorporated treatment of Command herbicide. Refer to the herbicide product label for appropriate preplant or preemergent herbicide application directions and use rates. Do not reduce the application rate of DI-SYSTON insecticide when Command herbicide is applied as a banded treatment.					
		Post Plant: (Irrigated Cotton Only) One soil incorporated side-dress application may be made. Regardless of the method of application, do not apply more than once per season. Allow at least 28 days between last application and harvest.					
Peanuts Aphids Leafhoppers Mites Thrips	l '	8 oz/1000 ft of row up to a maximum	Read "IMPORTANT" statement under "RECOMMENDED APPLICATIONS" for additional information before use on this crop.				
	Mites Thrips	of 6.7 lb/A	Apply specified dosage per acre in-furrow or as a soil incorporated band on each side of the seed at planting or as a soil incorporated sidedressing after plants are established.				
	(Except Western flower thrips)		In conjunction with this soil application of DI-SYSTON, Basagran, herbicide may be used at cracking or early postemergence at rates up to 1 pint/acre. Do not make a second application of Basagran until 21 days after peanut emergence. Do not apply more than 1.0 pint/acre of Basagran in single or multiple applications until 21 days after peanuts have emerged.				

<sup>\*</sup> Due to greenbug resistance in certain areas, Di-Syston used alone may not provide satisfactory control. Consult your local cooperative extension service, agricultural advisor or Bayer representative for details.

<sup>\*\*</sup>On row crops where row spacing is extremely narrow, do not place treated zones (band or furrow) closer together than 6 inches.

RECOMMENDED APPLICATIONS					
CROP	INSECT	DOSAGE DI-SYSTON 15% G	REMARKS		
FRUIT Coffee (Puerto Rico only)	Leaf miner	2 to 4 grams/ft of tree height	Distribute granules uniformly under the tree canopy. Do not apply more than twice per year. Make no more than one pre-harvest and one post-harvest application. Do not make the pre-harvest application within 90 days of harvest.  Any application equipment which is placed on the applicator's body or is carried by an applicator must meet the following requirements: The pesticide container and the entire path of pesticide through the equipment must be constructed of solid material impervious to dust. All joints must be tight-fitting to prevent escape of granules or dust from any point other than the designed discharge point(s). The pesticide container must be fitted with a tight-fitting lid which prevents escape of granules or dust during operation in any position. The equipment must be maintained in leak free condition. The equipment must be removed from the applicator's body for filling. The equipment exterior must be thoroughly cleaned of pesticide granules and dust before being placed on the applicator's body.		
NON-BEARING FRUIT Fruit Trees (apples, apricots, cherries, crabapples, peaches, pears, plums, and prunes	Aphids Lace bug Leafhoppers Mites Thrips Whiteflies	0.16 to 1.56 lb/tree OR 2.5 oz per inch of trunk diameter	Spread granules uniformly from trunk to drip line on all sides. Work into soil and water thoroughly. The higher dosage is recommended for heavy organic or muck soils. For transplanting, equivalent quantities should be applied into planting hole. Do not apply to trees that will bear fruit during current crop year.		
Strawberries (Propagating Plants only)	Aphids Mites (except Cyclamen mite)	17 to 34.4 oz per 1000 feet of row (42-inch row spacing)** OR 13.3 to 26.7 lb/A	Apply by side-dressing on each side of the row or by broadcasting over the row as needed. Do not use fruit from treated plants for food purposes.		
Raspberries (Nursery stock only) (Northeast States Only)	Aphids	53.3 lb/A	BAND APPLICATION: Apply specified dosage in a 24-inch band over the row to new or established plantings. Work granules 2 to 3 inches into the soil using a cultivator or other suitable equipment. A second application of granules may be applied to the soil later in the season. Consult your State Agricultural Experiment Station or Extension Service for proper timing of applications.		
VEGETABLES Beans	Aphids Leafhoppers Mexican bean beetle (larvae) Mites Thrips	6 oz per 1000 feet of row up to 6.7 lb/A	Read "IMPORTANT" statement under "RECOMMENDED APPLICATIONS" for additional information before use on this crop.  For snap or green Lima beans, place the granules in a soil incorporated band on each side of the seed furrow at planting time only. For dry beans, apply as above at planting time or as a soil incorporated sidedressing on each side of the row. Allow at least 60 days between application and harvest. Do not apply directly on the seed. Only one application is allowed per season. Do not feed vines or hay.		

<sup>\*</sup> Due to greenbug resistance in certain areas, Di-Syston used alone may not provide satisfactory control. Consult your local cooperative extension service, agricultural advisor or Bayer representative for details.

\*\* On row crops where row spacing is extremely narrow, do not place treated zones (band or furrow) closer together than 6 inches.

RECOMMENDED APPLICATIONS					
		DOSAGE			
CROP	INSECT	DI-SYSTON 15% G	REMARKS		
ORNAMENTALS	Aphids	3.5 to 7.25 oz	ROW TREATMENT		
Flowers and Lace bug Groundcover Leafhoppers  (Excluding bulbs and turf)  Hatelean Lace bug Leafhoppers  Mites	per 100 ft of row	As a row treatment apply in a band on each side of the seed furrow, or as a band over the row. Incorporate thoroughly into soil and water heavily. The higher dosage is recommended for heavy organic or muck soils.			
<del></del>	Thrips	7 oz per 100 sq ft	BROADCAST		
Whiteflies	Whiteflies		For mass planting apply as a broadcast treatment and incorporate into the soil before planting or apply after plants are established. Granules must be incorporated in the soil by mechanical means or thoroughly watered in so no pesticide remains on the soil surface. Repeat applications at 4 to 6 week intervals if necessary.		
		2 grams per sq ft	POTTED PLANTS		
			For application to potted plants, determine surface area of container, [diameter (inches) squared x 0.7865 divided by 144 equals square feet area of container]. Apply appropriate amount of DI-SYSTON 15% Granular by thorough incorporation as directed.		
Shrubs	Aphids	SHRUBS	SHRUBS		
Trees	Birch leaf miner	3.75 to 7.5 grams	Apply specified dosage per foot of shrub height. For shrubs 1-3 feet tall		
(Including	Camellia scale	per foot of height	apply the lower rate and on plants 3-6 feet in height apply the higher rate. Distribute granules uniformly under the shrub canopy, incorporate		
Christmas trees)	Eim leaf beetle		thoroughly into the soil, and water heavily. Repeat applications at 4 to 6		
	European elm		week intervals if necessary. See Note below.		
	scale	TREES	TREES		
	Holly leaf miner	2.5 oz per inch	Broadcast: Spread granules uniformly from trunk to drip line on all sides. Incorporate thoroughly into soil and water heavily so that no		
	Lace bug Leafhoppers	of trunk diameter	pesticide remains on the soil surface. See <b>Note</b> below.		
	Mimosa	measured 4 feet	Transplants: For transplanting, equivalent quantities should be applied		
·	Mimosa from the ground webworm		in the planting hole. Uniformly mix DI-SYSTON 15% Granular in the bottom one-half of the backfilled soil when planting. A minimum of inches of untreated soil should be placed on the backfilled soil.		
	Pine tip moth	]	Soil Implant: With an auger or soil sampling tool, dig 2 equally spaced		
	Soft scale		holes for each inch of trunk diameter. (Do not use less than 4 holes per		
	(Coccus	}	tree.) Dig the holes 9 to 12 inches deep under the drip line. Place an equal amount of DI-SYSTON 15% Granular in each hole. Fill the holes		
	nesperidium)		to the surface with soil, compress, and add additional soil to level. Keep		
	Tea scale Thrips		the treated area moist for 7 to 10 days.		
Whiteflies		Note: Any application equipment which is placed on the applicator's body or is carried by an applicator must meet the following requirements: The pesticide container and the entire path of pesticide through the equipment must be constructed of solid material impervious to dust. All joints must be tight-fitting to prevent escape of granules or dust from any point other than the designed discharge point(s). The pesticide container must be fitted with a tight-fitting lid which prevents escape of granules or dust during operation in any position. The equipment must be maintained in leak free condition. The equipment must be removed from the applicator's body for filling. The equipment exterior must be thoroughly cleaned of pesticide granules and dust before being placed on the applicator's body.			
		5 lb/1000 linear ft of	Soil Injection: Use an opening disk or shoe to make a furrow 4 to 6		
		row	inches deep between trunk and drip line of tree parallel to the direction of the row. Apply DI-SYSTON 15% Granular through a tube so that the		
		OR a sail injection	material is deposited in the bottom of the furrow. A device to close and		
		a soil injection 4 to 6 inches beneath	seal the furrow should be used following the placement of the material so that no granules are present on the soil surface.		
		the soil surface	50 that no granules are present on the son surface.		
		in 1 or 2 linear	·		
		application trenches			
* Due to greenb	ug resistance in cer	1 ''	l alone may not provide satisfactory control. Consult your local		

<sup>\*</sup> Due to greenbug resistance in certain areas, Di-Syston used alone may not provide satisfactory control. Consult your local cooperative extension service, agricultural advisor or Bayer representative for details.

\*\* On row crops where row spacing is extremely narrow, do not place treated zones (band or furrow) closer together than 6 inched.